### Introduction

The Agency for Healthcare Research and Quality (AHRQ) annually publishes a wealth of information in its congressionally mandated National Healthcare Quality Report (NHQR). This *State Snapshot* series provides quick and easy access, through the Web (<a href="http://www.qualitytools.ahrq.gov/qualityreport/state/spf.aspx">http://www.qualitytools.ahrq.gov/qualityreport/state/spf.aspx</a>), to the many measures and tables of the NHQR from a State-specific perspective.

Each *Snapshot* shows two areas in which the health care system of a particular State (or the District of Columbia) is doing well and two in which it might be able to improve. The examples are chosen from those measures for each State that score above average and below average, respectively, relative to all reporting States. Much more information can be viewed on the Web through the *Snapshot* series (at the address above). The *State Summary Tables* list over 100 measures, most with estimates for 2 years of data, for each State, when available from the NHQR.

Data sources, statistics used to assign the categories, calculation of averages, and criteria for selecting the examples presented below are explained at <a href="http://www.qualitytools.ahrq.gov/qualityreport/state/method.aspx">http://www.qualitytools.ahrq.gov/qualityreport/state/method.aspx</a>.

### **South Dakota Overview**

The South Dakota Summary Table includes 106 measures from the most recent year of data in the 2004 NHQR (<a href="http://www.qualitytools.ahrq.gov/qualityreport/state/stateData.aspx?state=SD">http://www.qualitytools.ahrq.gov/qualityreport/state/stateData.aspx?state=SD</a>). For the most recent data year, South Dakota has 17 measures in the above-average category (compared to all reporting States), 43 in the average category of States, and 16 in the below-average category of States. South Dakota has 30 measures without sufficient data for classification. Measures in the below-average, and possibly in the average, categories indicate areas that may be fruitful for quality improvement initiatives.

## Where South Dakota Does Well (Examples)

In this section, the examples show a few of the measures for which the South Dakota result was in the above-average group of States. For some measures, such as screening rates, the highest rate is the best result; and for other measures, such as time to treatment, the lowest rate is the best. The above-average category includes the best results however measured. A rate is considered above average when it is better than the all-State average and is statistically different from the all-State average. The all-State average reflects all States, including the District of Columbia, with available data for the measure.

A benchmark for quality improvement is provided below—the top-10-percent State average. This is the average for the five States that have the highest rates among all reporting States and the District of Columbia, 51 jurisdictions. The benchmark shows the best results attained under current medical practice. Some States may view that as a goal for improvement or may set more ambitious goals.

Example 1: Percent of adults with diabetes getting hemoglobin (HbA1c) test in last year

Most recent	Top-10-percent	All-State	<b>Bottom-10-percent</b>	
data year	State average	average	State average	South Dakota
2002	94.9	88.8	77.5	94.7

- This measure reflects the extent of blood glucose monitoring among adults with diabetes. The higher the State estimate for this measure, the greater the level of testing of the adult diabetes population in the State. The test result (rather than just whether a test was done) is needed to judge patients' success in controlling blood glucose, which has been connected with the delay of diabetes complications.
- In 2002, 94.7 percent of diabetes patients age 18 and over in South Dakota had received a hemoglobin A1c measurement at least once in the past year. This was roughly equivalent to the top-10-percent State average of 94.9 percent.
- South Dakota's estimate for this measure was above average for the most recent year (2002). This was an improvement from South Dakota's estimate in 2001, when it was only average.
- To view all States on this measure in the 2004 NHQR, see Appendix Table 1.15b.

Example 2: Percent of Medicare patients hospitalized for pneumonia who got antibiotics within 4 hours

Most recent data year	Top-10-percent State average	All-State average	Bottom-10-percent State average	South Dakota
2002	74.5	64.5	52.5	76.9

• This measure shows whether hospital personnel administer an antibiotic within 4 hours of when a patient with pneumonia arrives at a hospital or treatment center. Timely administration of antibiotics for pneumonia improves outcomes. The higher the State

- estimate for this measure, the higher the number of pneumonia patients who receive this standard of treatment in the State.
- In 2002, 76.9 percent of patients hospitalized for pneumonia in South Dakota received a first dose of antibiotic within 4 hours of arrival at the hospital. This was roughly equivalent to the top-10-percent State average of 74.5 percent. (There was no estimate for prior years).
- To view all States on this measure in the 2004 NHQR, see Appendix Table 1.86b.

### Where Improvement May Be Needed (Examples)

The examples in this section are measures for which the South Dakota result was in the below-average group of States. To understand how to use these results, see the following section (How To Use the Information). How results on each measure are classified into the below-average category is described at <a href="http://www.qualitytools.ahrq.gov/qualityreport/state/method.aspx">http://www.qualitytools.ahrq.gov/qualityreport/state/method.aspx</a>.

The bottom-10-percent State average is provided as a parallel to the top-10-percent State average. Comparison of the two averages shows how far the five States with the lowest rates have to improve to achieve the results of the five States with the best rates.

Example 3: Percent of women receiving prenatal care in first 3 months of pregnancy

Most recent	Top-10-percent	All-State	<b>Bottom-10-percent</b>	
data year	State average	average	State average	South Dakota
2001	89.8	83.6	76.1	78.3

- This measure shows the extent to which women get prenatal care in the first 3 months of pregnancy. The higher the State estimate for this measure, the earlier care is provided to pregnant women in the State.
- In 2001, 78.3 percent of pregnant women in South Dakota received prenatal care in the first trimester. This was roughly equivalent to the bottom-10-percent State average of 76.1 percent. The top-10-percent State average was 89.8 percent.
- South Dakota's estimate for this measure was below average for both the most recent year (2001) and the initial year (1998).
- To view all States on this measure in the 2004 NHQR, see Appendix Table 1.56b.

Example 4: Percent of adults 50 and older ever receiving flexible sigmoidoscopy or colonoscopy

Most recent	Top-10-percent	All-State	Bottom-10-percent	
data year	State average	average	State average	South Dakota
2002	60.9	48.9	40.6	42.4

• This measure shows the extent to which patients age 50 and over undergo a flexible sigmoidoscopy or colonoscopy to screen for colorectal cancer and polyps. The higher the

- State estimate for this measure, the better the screening rate of patients over 50 for colorectal cancer in the State.
- In 2002, 42.4 percent of people age 50 or older in South Dakota had ever received a flexible sigmoidoscopy or colonoscopy. This was roughly equivalent to the bottom-10-percent State average of 40.6 percent. The top-10-percent State average was 60.9 percent.
- South Dakota's estimate for this measure was below average for both the most recent year (2002) and the initial year (2001).
- To view all States on this measure in the 2004 NHQR, see Appendix Table 1.5b.

### **How To Use the Information**

The NHQR offers a rare opportunity for States and the District of Columbia to view their health care systems in comparison to other State systems on about 100 quality measures. All States have measures in both the above-average and the below-average groups. A first step to determining whether and in which areas quality improvement should be fostered in a State is to study measures in the State Summary Table

(http://www.qualitytools.ahrq.gov/qualityreport/state/statedata.aspx?state=SD). Understanding what these measures mean will require insight from many experts familiar with the health care system in the State as well as with quality measurement and improvement strategies. It may also require more study and data collection to determine that a problem actually exists or to identify underlying problems and possible solutions. For example, factors that affect specific population subgroups may underlie apparent health care quality problems and may thus require outreach focused toward those groups. Health care processes also may contribute to poor results, and thus quality improvement may require change in behavior of health care providers. AHRQ hopes that these data aid South Dakota leaders in exploring the quality of health care in their jurisdiction and in working to improve it.

### For More Information

State Snapshots and State Summary Tables for each State are available on the Internet at <a href="http://www.qualitytools.ahrq.gov/qualityreport/state/spf.aspx">http://www.qualitytools.ahrq.gov/qualityreport/state/spf.aspx</a>. For additional information on this topic, please send e-mail to <a href="mailto-QRDRInquiries@ahrq.gov">QRDRInquiries@ahrq.gov</a>.

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